

New Attorney Docket No.: 401190-000006

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope

addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

In re the application of:

Shaoping WANG et al.

Serial No.:

10/035,672

Filed: November 1, 2001

Art Unit:

1765

Confirmation No.:

4606

Examiner:

Matthew A. Anderson

For:

METHOD OF SILICON CARBIDE MONOCRYSTALLINE BOULE GROWTH

CUSTOMER NO.: 28465

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

CERTIFICATE UNDER 37 C.F.R. §3.73(b) AND POWER OF ATTORNEY

Dow Corning Enterprises, Inc., a Delaware Corporation (the "Assignee"), is the owner of the entire right, title and interest in the above-identified Patent Application ("the Patent Application") by virtue of an Assignment by and between Sterling Semiconductor, Inc. and Dow Corning Enterprises, Inc.; Sterling Semiconductor, Inc., a Delaware Corporation, in turn obtained title by virtue of an Assignment from the inventors of this Patent Application. As evidence of these assignments, the Assignee points to the enclosed copy of the Assignment by and between Sterling Semiconductor, Inc. and Dow Corning Enterprises, Inc. recorded on February 24, 2003,

at Reel 013781, Frame 0276, and to the recordation of the October 29, 2001 Assignment of U.S. Patent Application Serial No. 10/035,672 by the inventors, on November 1, 2001 at Reel 012451, Frame 0284. Copies of the Assignments by and between Sterling Semiconductor, Inc. and Dow Corning Enterprises, Inc., and the Assignment from the inventors to Sterling Semiconductor, Inc. will be submitted to the U.S. Patent and Trademark Office on the same day that this document is filed.

Assignee hereby appoints as its attorneys to prosecute this Patent Application and to transact all business in the U.S. Patent and Trademark Office connected with the Patent Application and with any resulting patent: Joel H. Bootzin, Reg. No. 42,343; Mark I. Feldman, Reg. No. 26,880; R. Blake Johnston, Reg. No. 41,097; Michael L. Kenaga, Reg. No. 34,639; Jefferson Perkins, Reg. No. 31,407; Micah R. Onixt, Reg. No. 47,834; James P. Ryther, Reg. No. 20,424; Thomas W. Ryan, Reg. No. 43,072; Steven B. Kelber, Reg. No. 30,073; James M. Heintz, Reg. No. 41,828; Jerold I. Schneider, Reg. No. 24,765 and Christopher W. Raimund, Reg. No. 47,258, all of said attorneys being of the firm of Piper Rudnick LLP, with full power of substitution and revocation, to prosecute this application and represent the undersigned before all competent International Authorities.

New Attorney Docket No.: 401190-000006

Please direct all correspondence to:

Piper Rudnick LLP P.O. Box 64807 Chicago, Illinois 60664-0807

Please direct all telephone calls to:

Jefferson Perkins (312) 368-7073

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature:

Title:

Date:

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MARCH 07, 2002

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Chief Information Officer Washington, DC 20231 www.uspto.gov

PIPER MARBURY RUDNICK & WOLFE JOEL H. *BOOTZIN 203 NORTH LASALLE STREET SUITE 1800 CHICAGO, ILLINOIS 60601-1293



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RECORDATION DATE: 11/01/2001

REEL/FRAME: 012451/0284

NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

WANG, SHAOPING

DOC DATE: 10/29/2001

ASSIGNOR:

KOPEC, ANETA

DOC DATE: 10/29/2001

ASSIGNOR:

WARE, RODD MITCHELL

DOC DATE: 10/29/2001

ASSIGNOR:

HOLMES, SONIA

DOC DATE: 10/29/2001

ASSIGNEE:

STERLING SEMICONDUCTOR, INC. 22660 EXECUTIVE DRIVE SUITE 101 STERLING, VIRGINIA 20166-9535

SERIAL NUMBER: 10035672

PATENT NUMBER:

FILING DATE: 11/01/2001

ISSUE DATE:

012451/0284 PAGE 2

LAŻENA MARTIN, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS FORM PTO -1610 AT P Expires 06/30/99 OMB 0651-0027 JUN 2 1 2004

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U.S. Department of Commerce Patent and Trademark Office

PATENT

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Name (line 2)						Effective Date	
Second Party Name (line 1)	KOPEC, Aneta					Month Day Yea	
Name (line 1)	KOTEC, Aneta		W			10292001	
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Name (line 1)	STERLING SEMICON					If document to be rec	corded
Name (line 2)						is an assignment and receiving party is not domiciled in the Unit	d the
Address (line 1)	22660 Executive Drive				· · ·	States, an appointme of a domestic representative is atta	ent
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FORM PTO -1619B U.S. Department of Commerce Expires 06/30/99 OMB 0651-0027 Patent and Trademark Office
PATENT Page 2 Correspondent Name and Address Area Code and Telephone Number (312) 368-7072 Joel H. Bootzin Name Piper Marbury Rudnick & Wolfe Address (line 1) 203 North LaSalle Street Address (line 2) **Suite 1800** Address (line 3) Chicago, Illinois 60601-1293 \ Address (line 4) Enter the total number of pages of the attached conveyance document **Pages** including any attachments Application Number(s) or Patent Number(s) Mark if additional numbers attached Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property). Patent Application Number(s) Patent Number(s) Month Day If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor 10292001 Patent Cooperation Treaty (PCT) PCT **PCT PCT** Enter PCT application number only if a U.S. Application Number PCT has not been assigned. Number of Properties Enter the total number of properties involved. Fee Amount Fee Amount for Properties Listed (37 CFR 3.41): \$ | 40.00 Method of Payment: **Enclosed Deposit Account** Deposit Account (Enter for payment by deposit account or if additional fees can be charged to the account.) Deposit Account Number: 18-2284 Authorization to charge additional fees: Yes X Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as

indicated herein.

Joel H. Bootzin Name of Person Signing Reg. No. 42,343

Signature

November 1, 2001 **Date Signed**

FORM PTO -16190 JUN 2 1 2004 RECORDATION FORM COVER SHEET CONTINUATION PATENTS ONLY	U.S. Department of Commerce Patent and Trademark Office PATENT
Conveying Party X Mark if additional names of conveying parties attached	. S. 67
Enter additional Conveying Parties	Effective Date Month Day Year
Name (line 1) WARE, Rodd Mitchell	10292001
Name (line 2)	Effective Date
Name (line 1) HOLMES, Sonia	Month Day Year 10292001
Name (line 2)	Effective Date
Name (line 1)	Month Day Year
Name (line 2)	
Receiving Party Mark if additional names of conveying parties attached	
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Name (line 2)	receiving party is not domiciled in the United States, an appointment
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Address (line 2)	separate document from Assignment.)
Address (line 3) City State/Country Zip Co	
Name (line 1)	If document to be recorded
Name (line 2)	is an assignment and the receiving party is not domiciled in the United
Address (line 1)	States, an appointment of a domestic representative is attached.
Address (line 2)	(Designation must be a separate document from
Address (line 3)	Assignment)
City State/Country Zip Co	ode .
Application Number(s) or Patent Number(s) Mark if additional numbers attached	
Enter either the Trademark Application Number or the Registration Number (DO NOT ENTER BOTH number)	ers for the same property).
Patent Application Number(s) Patent Number	ber(s)

ASSIGNMENT

WHEREAS, I, one of the undersigned joint inventors, of residence as listed, having invented certain new and useful improvements as below entitled, for which I have applied for a United States patent, said application having been executed on the date set forth below; and

WHEREAS, STERLING SEMICONDUCTOR, INC. (hereinafter referred to as "Assignee"), a corporation of the state of Delaware, with an address of Suite 101, 22660 Executive Drive, Sterling, Virginia 20166-9535, desires to acquire our entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we assign to Assignee, all right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, continuations, and continuations-in-part thereof; and we authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention insofar as my interest is concerned, to Assignee.

We also assign to Assignee, all right, title and interest in and to the invention disclosed in said application throughout the world, including the right to file applications for and obtain patents, utility models, industrial models and designs for said invention in STERLING SEMICONDUCTOR, INC.'s own name throughout the world including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.

We will communicate to Assignee any facts known to us respecting any improvements; and, at the expense of Assignee, we will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries.

representatives. METHOD OF SILICON CARBIDE Title of Invention: MONOCRYSTALLINE BOULE **GROWTH** P6244 (300842-008003) Attorney Docket No.: Sharping Wang Signature of Inventor: Shaoping WANG Inventor's Name: Brookfield, Connecticut 06804 Residence (City and State): October 29, 2001 Date of Assignment: Date Application Executed: Ineta Kopec Signature of Inventor: Aneta KOPEC Inventor's Name: Residence (City and State): Bethel, Connecticut 06801 October 29, 2001 Date of Assignment: Date Application Executed: Signature of Inventor: Rodd Mitchell WARE Inventor's Name: Residence (City and State): Danbury, Connecticut 06810 Date of Assignment: Date Application Executed:

This Assignment shall be binding on the parties' successors, assigns and legal

Signature of Inventor:

Inventor's Name:

Sonia HOLMES

Residence (City and State):

Date of Assignment:

October 29, 2001

Date Application Executed: October 29,2001





JULY 09, 2003

MS. LISA S. LATHROP 901 LAKESIDE AVE.

CLEVELAND, OH 44114-1190

JONES DAY

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RECORDATION DATE: 02/24/2003

REEL/FRAME: 013781/0276

NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

STERLING SEMICONDUCTOR, INC.

DOC DATE: 01/23/2003

ASSIGNEE:

DOW CORNING ENTERPRISES, INC. 2200 WEST SALZBERG ROAD, MAIL #CO1242 C/O PAUL A. MARCELA, ESQ. AUBURN, MICHIGAN 48611

SERIAL NUMBER: 100B5672

PATENT NUMBER:

FILING DATE: 11/01/2001

ISSUE DATE:

MARY BENTON, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

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Name of Person Signing

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40.00 GP. Commissioner of Patents & Trademarks, 2 Washington, D.C. 20231

PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT (this "Assignment") dated as of January 23 2003 (the "Effective Date"), is made by and between Sterling Semiconductor, Inc., a Delaware corporation ("Assignor"), and Dow Corning Enterprises, Inc., a Delaware corporation ("Assignee").

WHEREAS, Assignor and Assignee are parties to that certain Asset Purchase Agreement, dated as of November 27, 2002 ("Purchase Agreement"), pursuant to which Assignor has agreed to sell and Assignee has agreed to purchase substantially all of the assets, properties, rights and interests relating to the Business (as defined in the Purchase Agreement);

WHEREAS, Assignor is the owner of the United States and foreign patent application identified on <u>Schedule A</u> (together with any continuations, divisions, continuations-in-part, reissues, reexaminations or extensions thereof and including the subject matter of all claims that may be obtained therefrom, the "Patent"); and

WHEREAS, Assignee wishes to acquire and Assignor wishes to assign all of Assignor's right, title and interest in and to the Patent.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

Assignor hereby sells, assigns and transfers to Assignee all of Assignor's right, title and interest in and to the Patent for Assignee's own use and enjoyment, and for the use and enjoyment of Assignee's successors, assigns or other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made, together with all income, royalties or payments due or payable as of the Effective Date or thereafter, including, without limitation, any such payments resulting from past, present or future infringement or other unauthorized use of the Patent, together with the right to sue for and collect the same.

Assigner as the assignee and owner of the Patent.

This Assignment may be executed in any number of counterparts, each of which shall be deemed to be an original, and all of which together shall constitute one and the same instrument.

IN WITN	ESS WHEREOF, Assi	gnor and Assignee have caused this Assignment
o be duly executed as o	f the date first above wr	itten.
		ASSIGNOR:
		STERLING SEMICONDUCTOR, INC.
		By:
STATE OF FLORIDA)	
COUNTY OF SARAS	SS: OTA)	
	SEAL logue to of Florida	O3 personally appeared before me Howard R. Semiconductor, Inc., who acknowledged that he f Sterling Semiconductor, Inc. Notary Public: SUSANA. POGUE My commission expires: ASSIGNEE: DOW CORNING ENTERPRISES, INC.
		By:Name: Title:
STATE OF COUNTY OF) ss:)	
" •	of Dow Comin	003 personally appeared before me, g Enterprises, Inc., who acknowledged that he/she of Dow Corning Enterprises, Inc.
·		Notary Public: My commission expires:
- 		į

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BEST AVAILABLE COPY

IN WITNESS WHEREOF, Assignor and Assignee have caused this Assignment

-		ASSIGNOR:
		STERLING SEMICONDUCTOR, INC.
		By:
STATE OF FLORIDA	ss:	
COUNTY OF SARASO		*
	Ole administration of Starts	2003 personally appeared before me Howard R. ing Semiconductor, Inc., who acknowledged that he f of Sterling Semiconductor, Inc.
	Ole administration of Starts	ing Semiconductor, inc., who dome with the
	Ole administration of Starts	ng Semiconductor, inc., who do not be semiconductor, inc. f of Sterling Semiconductor, Inc. Notary Public: My commission expires: ASSIGNEE:
	Ole administration of Starts	ning Semiconductor, Inc., who do not be semiconductor, Inc. Notary Public: My commission expires: ASSIGNEE: DOW CORNING ENTERPRISES, INC.
	Ole administration of Starti	ng Semiconductor, inc., who do not be semiconductor, inc. f of Sterling Semiconductor, Inc. Notary Public: My commission expires: ASSIGNEE:
	Chairman of Sterli a free act on behal	Notary Public: My commission expires: ASSIGNEE: DOW CORNING ENTERPRISES, INC. By: Dave Cornelius

On this 21st day of January, 2003 personally appeared known to me to be a representative of Dow Corning Enterprises, Inc. via delegation of authority by a Vice President of Dow Corning Enterprises, Inc., who acknowledged that he signed this instrument as a free act on behalf of Dow Corning Enterprises, Inc.

Notary Public:

GINA M. BULLARD

My commission expires: NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN

CLI-1050844v1

Schedule A

Patent Application Number 10/035,672 - Method of Silicon Carbon Monocrystalline Boule Growth (Pending - Application filed 11/1/01).

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